CILogon 2.0

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CILogon 2.0

- ❏ 3 year NSF CICI project
  - ❏ January 2016 - December 2018
- ❏ Provide an integrated open source Identity and Access Management (IdAM) platform for cyberinfrastructure
  - ❏ CILogon: federated identity management
  - ❏ COmanage: collaborative organization management
- ❏ Support *international* collaborations

CILogon 2.0 Team

- Jim Basney
- Terry Fleury
- Jeff Gaynor
- Venkat Yekkirala

- Heather Flanagan
- Scott Koranda
- Benn Oshrin
- Arlen Johnson

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www.cilogon.org
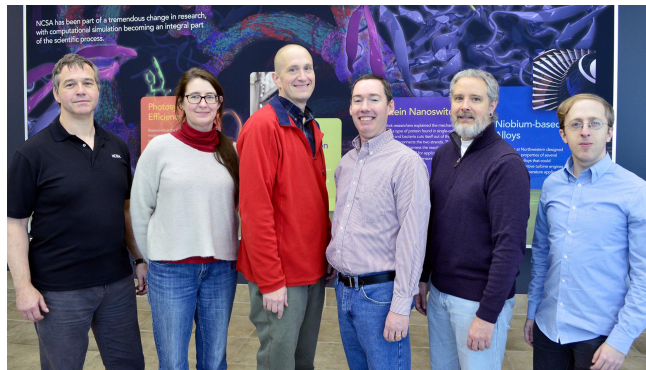
CILogon OSG CA

❏ Entered production January 2016
❏ CA policy accredited by IGTF
❏ Passed XSEDE Operations Acceptance
❏ Transitioned OSG CA to use CILogon infrastructure operated by XSEDE
❏ Sharing Hardware Security Modules between CILogon and XSEDE
❏ Integrated with OSG registration process
❏ Using new CILogon HTTPS API for issuance of certificates by OSG front-end

SAML to OpenID Connect (OIDC) Gateway

- ❏ Entered production January 2016
- ❏ Supporting e-Science clients
  - ❏ Review & approval by CILogon staff
- ❏ User consent based on requested scopes
  - ❏ openid, profile, email
  - ❏ org.cilogon.userinfo (eppn, affiliation)
  - ❏ edu.uiuc.ncsa.myproxy.getcert
    (to allow X.509 certificate issuance)
  - ❏ VO attributes

www.cilogon.org/oidc

CILogon User Consent

Encouraging Federated Logins

- In February 2016, Globus began listing InCommon IdPs directly, rather than as "alternate login" option
  - InCommon / CILogon use doubled!
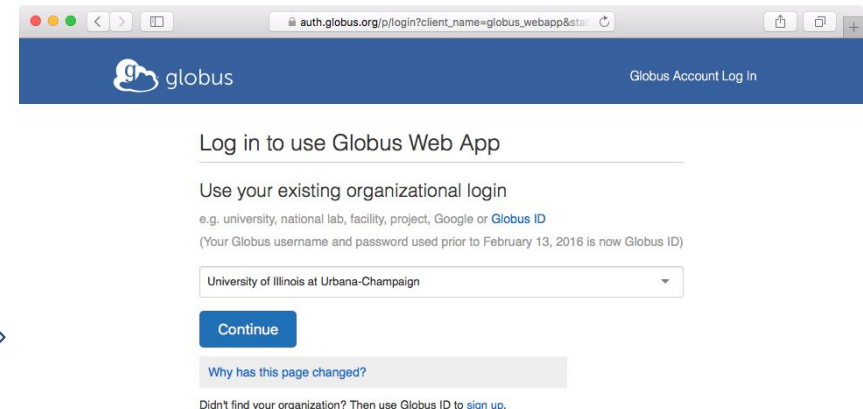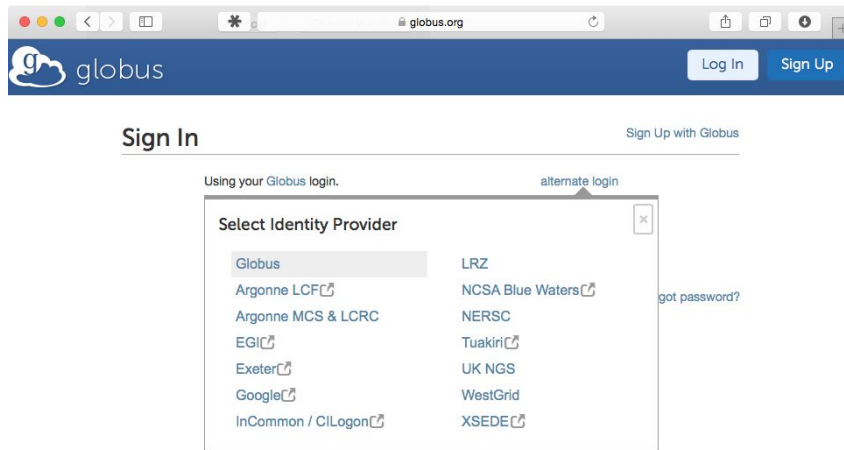
CILogon-enabled Apps

- ATLAS Connect
- CMS Connect
- DataONE
- DOE KBase
- Duke CI Connect
- Fermilab `New`
- Globus

- IU CI Gateway
- LIGO
- OOI
- OSC OnDemand `New`
- OSG Connect
- SeedMe
- XSEDE

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Supporting Fermilab

❏ In Summer 2016, Fermilab transitioned to using CILogon for short-lived certificates and retired the Fermilab KCA

❏ 350+ active Fermilab users in October

❏ Operating an InCommon IdP is easier than operating an IGTF CA

   ❏ #1 challenge: Hardware Security Modules

Enabling Global Interfederation

- ❑ Research & Scholarship
  - ❑ https://spaces.internet2.edu/display/InCFederation/Research+and+Scholarship+Category
- ❑ Security Contacts in metadata
  - ❑ https://spaces.internet2.edu/display/InCFederation/Contacts+in+Metadata
- ❑ Security Incident Response Trust Framework for Federated Identity
  - ❑ https://refeds.org/sirtfi

CILogon

Supporting Int'l IdPs (Sep 2016)

- Thanks to InCommon joining eduGAIN
- CILogon policy update approved in July by IGTF
- Requiring R&S + Sirtfi

www.cilogon.org/news/expanding-idps

Select An Identity Provider:

CEREQ - Centre d'Etudes et de Recherches sur les Quali
CERN
CESNET
CETEM - Centro de Tecnologia Mineral

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User-Driven Problem Resolution

⚠ There was a problem logging on. Your identity provider has not provided CILogon with required information about you.

First Name: MISSING

Last Name: MISSING

Display Name: MISSING

Contact your identity provider to let them know you are having having a problem logging on to CILogon.

- Technical Contact: Technical Support <support@example.edu>

Alternatively, you can contact us at the email address at the bottom of the page.

Oct 2016 Problem Report

anl.gov berkeley.edu fnal.gov
hawaii.edu ligo.org
mdanderson.org muohio.edu
nih.gov njit.edu okstate.edu
sdstate.edu sfsu.edu
swmed.edu uah.edu
uakron.edu uc.edu ucla.edu
uhd.edu unr.edu upenn.edu
utdallas.edu utep.edu
uvm.edu vt.edu wisc.edu

dur.ac.uk
gla.ac.uk
lancs.ac.uk
leeds.ac.uk
liv.ac.uk
manchester.ac.uk
rhul.ac.uk
stfc.ac.uk
sussex.ac.uk
unipv.it

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Most Used IdPs - Oct 2016

	ECP	1. Fermilab		R&S	11. UNL
R&S	ECP	2. LIGO		R&S	12. Indiana U
		3. NIH		R&S	13. U Minnesota
R&S	ECP	4. U of Michigan		R&S	14. U of Colorado
Sirtfi R&S		5. Ohio State		R&S	15. U of Cincinnati
R&S		6. Purdue			16. ANL
		7. Google		R&S	17. JHU
R&S	ECP	8. UIUC		R&S	18. Yale
Sirtfi R&S	ECP	9. U Chicago		R&S	19. U Florida
R&S		10. UCLA			20. UC Berkeley

(unique active users per IdP)

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All IdPs used - Oct 2016

Fermi National Accelerator Laboratory
LIGO Scientific Collaboration
National Institutes of Health
University of Michigan
Ohio State University
Purdue University Main Campus
Google
University of Illinois at Urbana-Champaign
University of Chicago
University of California-Los Angeles
University of Nebraska-Lincoln
Indiana University
University of Minnesota
University of Colorado at Boulder
University of Cincinnati Main Campus
Argonne National Laboratory
Johns Hopkins
Yale University
University of Florida
University of California, Berkeley
Lawrence Berkeley National Laboratory
University of Southern California
Stanford University
Michigan State University
Cornell University
Case Western Reserve University
University of Wisconsin-Madison
University of Utah
The University of Arizona
Penn State
Carnegie Mellon University
University of California-San Diego
New York University
Montana State University - Bozeman
Iowa State University
University of Texas at Austin

Old Dominion University
Northwestern University
University of Wyoming
University of North Carolina at Chapel
Rice University
Oak Ridge National Laboratory
University of Rochester
University of California-Santa Barbara
University of Hawaii
Massachusetts Institute of Technology
Clemson University
University of Washington
Texas A & M University
Princeton University
University of California, Davis
Tufts University
Columbia University
Arizona State University
West Virginia University
University of Notre Dame
Rutgers, The State University of New
Ohio University Main Campus
University of Maryland College Park
University of California-Irvine
Duke University
University of South Dakota
University of Iowa
Georgia Institute of Technology
University of Pittsburgh
The George Washington University
Oklahoma State University System
University of Oklahoma
Colorado School of Mines
Brown University
Vanderbilt University
University of Virginia
Texas Tech University
Stony Brook University
Oregon State University

Ohio Technology Consortium (OH-TECH)
North Carolina State University
Colorado State University
Boston University
University of Nebraska Medical Center
University of California, San Francisco
Boise State University
University of North Carolina At Charlotte
University of Illinois at Chicago
University of Houston
University of Dayton
Marshall University
Georgetown University
California Institute of Technology
Baylor College of Medicine
University of Missouri System
University of California, Riverside
University of Arkansas
University of Alabama, The
Lehigh University
Weill Cornell Medical College
University of Texas Southwestern Medical
Center
University of New Mexico
United ID
Rockefeller University
ICER - Mali
Florida International University
ESnet
Woods Hole Oceanographic Institution
Virginia Polytechnic Institute and State
University
Utah State University
University of Vermont
University of South Carolina
University of Pennsylvania
University of Nevada, Reno
University of Maryland Baltimore
University of California, Santa Cruz

Texas State University - San Marcos
San Diego State University
Louisiana State University
Lafayette College
Kansas State University
Brookhaven National Laboratory
Worcester Polytechnic Institute
Western Michigan University
University of Wisconsin-Milwaukee
University of Texas at Dallas
University of Tennessee
University of North Carolina at Greensboro
University of Maryland Baltimore County
University of Maine System
University of Kansas Medical Center
University of Kansas
University of Houston Libraries
University of Delaware
University of Alaska Statewide System
University of Alabama at Birmingham
The Broad Institute of MIT and
Stockholms universitet
Southern Methodist University
South Dakota State University
ProtectNetwork
National Center for Supercomputing
Applications
Internet2
Harvey Mudd College
Georgia State University
George Mason University
CERN
Cedarville University
California State University, Fullerton
Brandeis University
Boston College
Baylor University
Augusta University

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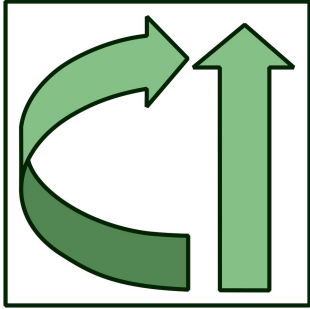
CILogon Monthly Usage
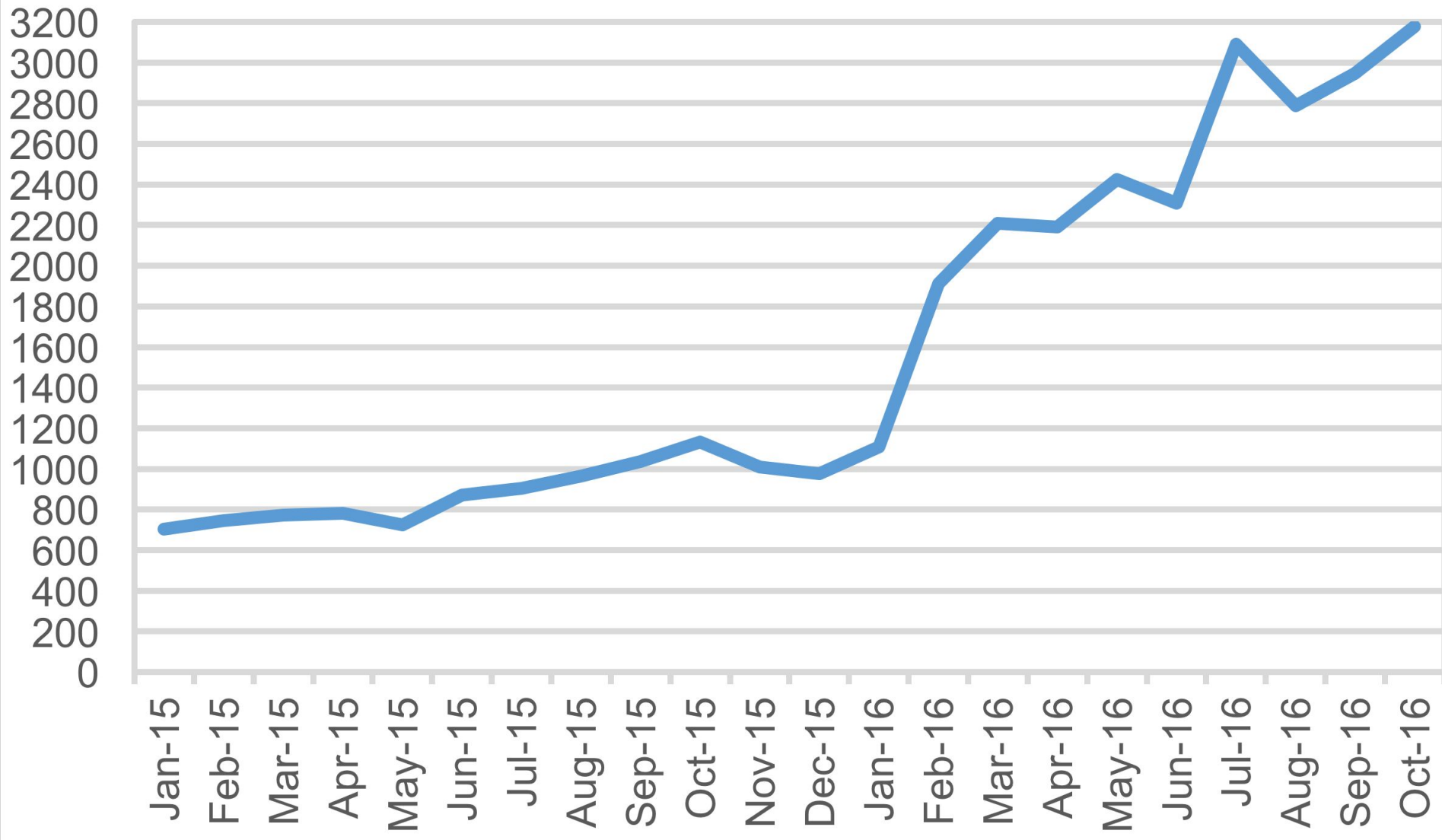
CILogon 2.0 - Registry Beta

- For early adopters of CILogon 2.0 collaboration management (COmanage)
- Using upcoming COmanage 1.1 release
- Visit www.cilogon.org to sign up

Coming soon!

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Thanks!

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help@cilogon.org